



# Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

Managed by Brothers of St. Gabriel Educational Society

**LEAD TO ILLUMINATE**



**BIO TECHNOLOGY**

**2023-24**



# Little Flower Degree College

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## DEPARTMENT OF LIFE SCIENCES FACULTY OF BIOTECHNOLOGY

ACADEMIC YEAR 2023-24

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## WORKSHOP ON PLANT TISSUE CULTURE

Date	9 <sup>TH</sup> August 2023
Venue	Atlantis Phyto tech, Quthbullapur
Timings	10:00am to 3:00pm
No. of participants	11
Topic	Plant Tissue Culture
Objective	To familiarise, explain and train students different techniques and culturing of the plant tissues in a laboratory.
Outcome	<ol style="list-style-type: none"><li>1. Students learnt the sterilization process and handling of equipment for research purpose.</li><li>2. Students were able to isolate and sub-culture the given explant efficiently.</li><li>3. Students got the exposure of the industry and also learnt the different stages of entrepreneurship.</li></ol>

The Department of Biotechnology at Little Flower Degree College organised a workshop in association with Atlantis Phyto tech at Quthbullapur on 9<sup>th</sup> August, 2023. The workshop focused on hands on training of inoculation, sterilization, and sub-culturing of the plant species. It encouraged them to explore new ideas and concepts in the field of plant biotechnology.

The workshop was open to all final year BSc. (BTMC) Life Science students. An active interaction with the resource person Dr. K. B. Rao (scientist) was seen. The workshop allowed students to have live experience of the PTC unit and the commercial production of the cultures.

The students were provided with a participation certificate. Overall, the workshop organised by the Department of Biotechnology at Little Flower Degree College was a great opportunity for students to develop their technical skills and research skills.





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## STUDENTS OF BTMC 3, LFDC AT ATLANTIS PHYTOTECH



**AUGUST 9, 2023:** Students of BTMC 3, Little Flower Degree College, visit Atlantis Phyto tech for a plant tissue culture workshop.



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## REPORT ON REFRESHER COURSE ON MOLECULAR MEDICINE

Osmania University UGC-HRDC organised a refresher course on Molecular Medicine which was conducted offline at OU from 16.08.2023 to 29.08.2023. The course focused on updating and educating the faculties with latest developments in life science disciplines.

The topics covered were personalised medicine, cancer biology, infectious diseases, etc. It enhanced the knowledge and gave an opportunity to have broad sense of approach on the research.

Eminent speakers from varied institutions like CSIR, AIIMS, IISC, BITS-HYD, etc., were invited. It was healthy environment giving the chance to utilise the resources and have interactions with them. At the end of the course, certification of completion was awarded to the participants.



GLIMPSES FROM THE 15-DAY COUSE AT OU-UGC HRDC





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## REPORT ON INTERNATIONAL FACULTY DEVELOPMENT PROGRAM ON RESEARCH METHODOLOGIES – A NEW PERSPECTIVE

A 7-day International Faculty Development Program on Research methodologies was conducted by AVP College of Arts and Sciences, Coimbatore. It was conducted between 25.08.2023 and 31.08.2023. The program included eminent speakers from foreign universities of Europe, Greece, and Central Universities of India. The FDP focused on Role of AI, Qualitative research, Digital research, Cloudition, etc.,

The 7-day program has provided knowledge and fostered an environment of continuous improvement and innovation. It improved the perspective of looking into the learning tools in daily teaching methodology. It has also provided guidance on efficient use of the AI tools for growth of faculty. The participation certificate was awarded.



**CERTIFICATE OF PARTICIPATION**



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## **NUTRITION MONTH CELEBRATIONS VIDEO PRESENTATION COMPETITION**

Date	22 <sup>nd</sup> September 2023
Venue	Biotechnology lecture room (P22)
Timings	12:40pm to 1:40pm
No. of participants	09
Topic	Food around the World
Objective	To make students learn how to persuade audience through audio visual design, ideas and sounds in a limited time
Outcome	<ol style="list-style-type: none"><li>1. Students learnt to use technology (apps) to deliver their ideas.</li><li>2. Students learnt to make a short outline of their work using visuals and audio.</li><li>3. Students also learnt to analyse and select the efficient information.</li></ol>

The Faculty of Biotechnology at Little Flower Degree College organised a video presentation competition for BSc. Life Sciences students. The competition aimed to provide a platform for students to provide a way for learners to see and hear information more dynamically and engagingly than traditional text-based materials.

The competition was open to all BSc. Life Sciences students, and participants were required to present a video of 2-3 minutes on Country/State specific foods. The presentations were judged on a number of criteria, including technical content, skills, and creativity.

The competition was a great success, with many talented students participating and presenting their research on the given topic. The winners were awarded prizes and certificates for their outstanding performance. Overall, the competition organised by the Faculty of Biotechnology at Little Flower Degree College was a great opportunity to develop their presentation, and research skills.



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SEPTEMBER 22, 2023: Life-Science students of all three years participate in Video on the topic "Food around the world" as part of Nutrition Month Celebrations.





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### **NUTRITION MONTH CELEBRATIONS ABSTRACT WRITING COMPETITION**

Date	23 <sup>rd</sup> September 2023
Venue	Biotechnology lecture room (P22)
Timings	12:40pm to 1:40pm
No. of participants	37
Topic	Role of Calcium as a supplement
Objective	To make students learn how to make a summary of the topic in a precise way
Outcome	<ol style="list-style-type: none"><li>1. Students learnt to differentiate the key content areas for research purpose.</li><li>2. Students learnt to make a short yet descriptive outline of their work which is necessary for their research publications.</li><li>3. Students also learnt the role of the elements like calcium, its sources, and its association with other metabolic activities.</li></ol>

The Faculty of Biotechnology at Little Flower Degree College organised an abstract writing competition for BSc. Life Sciences students. The competition aimed to provide a platform for students to showcase their research and presentation skills, and to encourage them to explore new ideas and concepts in the field of biotechnology.

The competition was open to all BSc. Life Sciences students, and participants were required to write an abstract of 250 words on Role of Calcium as a Supplement. The presentations were judged on a number of criteria, including content, writing skills, and language.

The competition was a great success, with many talented students participating and presenting their research on the given topic. The winners were awarded prizes and certificates for their outstanding performance. Overall, the competition organised by the Faculty of Biotechnology at Little Flower Degree College was a great opportunity to develop their writing, presentation, and research skills.



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## LIFE SCIENCE STUDENTS PARTICIPATING IN ABSTRACT WRITING



**22, 2023:** Life-Science students of all three years participate in Abstract Writing Competition on the topic “Role of Calcium as Supplement” as part of Nutrition Month Celebrations.



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### **NUTRITION MONTH CELEBRATIONS COLLAGE MAKING COMPETITION**

Date	25 <sup>th</sup> September 2023
Venue	Biotechnology laboratory room (D34)
Timings	12:40pm to 2:00pm
No. of participants	16
Topic	Probiotics
Objective	To make students learn how to be creative and experiment with different resources
Outcome	1. Students learnt to transfer their ideas to art practice. 2. Students socialised among themselves sharing their resources giving the spirit of healthy competition. 3. Students also learnt the concentration skills.

The Faculty of Biotechnology at Little Flower Degree College organised a collage making competition for BSc. Life Sciences students. The competition aimed to provide a platform for students to provide a way for learners to see and hear experiencing collage as a tool for thinking, a means for articulating form, as inspiration for transferring ideas to their art practice and probes traditional and experimental methods that enable you to visualise your ideas.

The presentations were judged on a number of criteria, including content and creativity. The competition was a great success, with many talented students participating and presenting their ideas on the given topic. The best collages were awarded and appreciated by the judges.



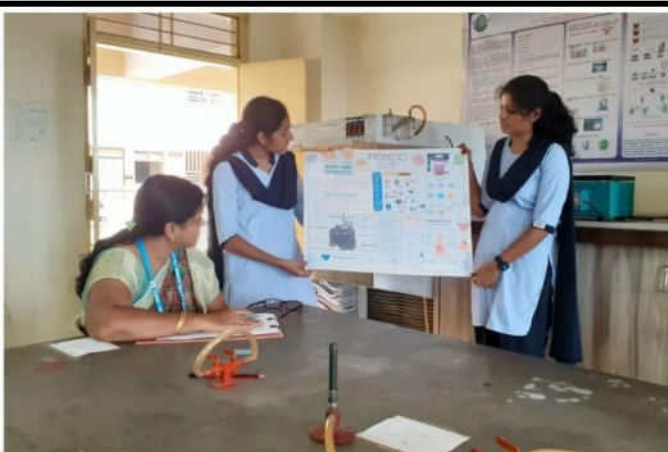


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LIFE-SCIENCE STUDENTS PARTICIPATING IN THE COLLAGE MAKING COMPETITION



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**SEPTEMBER 25, 2023:** Life-Science Students of all three years took part in collage making competition on the topic “Probiotics” as part of nutrition month celebrations.



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### **NUTRITION MONTH CELEBRATIONS** **FOOD EXPO**

Date	26 <sup>th</sup> September 2023
Venue	Chemistry lecture room (P23)
Timings	12:40pm to 1:40pm
No. of participants	25
Topic	Traditional Foods
Objective	To make students learn importance of traditional foods and science behind it
Outcome	1. Students got to know about the local cultural heritage. 2. Students showed the nature of sharing and created a sense of community and belonging. 3. Students were able to analyse the ideas and concept behind traditional food science.

The Faculty of Biotechnology at Little Flower Degree College organised an abstract writing competition for BSc. Life Sciences students. The competition aimed to provide a platform for students to showcase their cooking and presentation skills and to encourage them to understand the nutritional value of traditional foods.

The competition was open to all BSc. Life Sciences students, and participants were required to present a dish with its nutritional content. The



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presentations were judged on a number of criteria including taste, visual appeal, and nutritional content. The competition was a great success, with many talented students participating and presenting their dishes.

The winner were awarded prizes and certificates for their outstanding performance, Students learnt the art of cooking and also enhanced the atmosphere with their sharing and caring nature.



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## LIFE SCIENCE STUDENTS PARTICIPATING IN FOOD EXPO

**SEPTEMBER 26, 2023:** Life-Science Students of all three years prepare traditional dishes and participate in food expo as part of nutrition month celebrations.



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## **NUTRITION MONTH CELEBRATIONS** **TEST YOUR KNOWLEDGE - QUIZ COMPETITION**

Date	27 <sup>th</sup> September 2023
Venue	Chemistry lecture room (P23)
Timings	12:40pm to 3:30pm
No. of participants	37
Topic	Vitamins, Spices, Guess the food and Food trivia
Objective	To make students gain a broad understanding of the nutrition and the nutrition month
Outcome	1. Students learnt to healthy level of competition. 2. Students showed self-awareness of progress and self-assessments.



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3. Students were able to identify knowledge gaps, boost confidence and retain information.

The Faculty of Biotechnology at Little Flower Degree College organised a quiz competition for BSc. Life Sciences students. The competition provided a platform which was a coverage of intelligence and curiosity.

Total of 4 rounds with 4 questions per round was the criteria. The quiz tested their knowledge on various nutritional facts, compounds in foods and specialities of foods.

The winners were awarded prizes and certificates for their outstanding performance. Overall, the competition organised by the Department of Biotechnology at Little Flower Degree College was a great opportunity for students to develop their knowledge on various aspects of foods and its nutritional value.



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Long 78.557587°  
27/09/23 12:07 PM GMT +05:30





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## LIFE-SCIENCE STUDENTS PARTICIPATING IN THE QUIZ

**SEPTEMBER 27, 2023:** Life-Science students of all three years took part in the quiz, as part of nutrition month celebrations.



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## **NUTRITION MONTH CELEBRATIONS** **GUEST LECTURE**

Date	29 <sup>th</sup> September 2023
Venue	Chemistry lecture room (P23)





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Timings	10:30am to 12:30pm
No. of participants	50
Topic	Nutrition for healthy life
Objective	To provide students a perspective of educational experience based on real world life experience.
Outcome	<ol style="list-style-type: none"><li>1. Students learnt a new way of approach to lead a healthy lifestyle.</li><li>2. Students showed active interaction and self-confidence in learning new things.</li><li>3. Students were able to learn the current trends and future opportunities related to nutrition.</li></ol>

The Faculty of Biotechnology at Little Flower Degree College organised a Guest Lecture on Nutrition for Healthy Life for BSc. Life Sciences students. Dr. Jharna Puppala ma'am – Assistant Professor at NIN was the speaker of the talk.

The talk was focused on the healthy body and healthy life. Ma'am described the concepts and importance of the nutrition in maintenance of the daily life activities. An active interaction between students and ma'am was seen and program helped students to understand the proper meal concept.

The prize distribution was followed for the competitions held throughout the week. The winners were awarded prizes and certificates for their outstanding performance.



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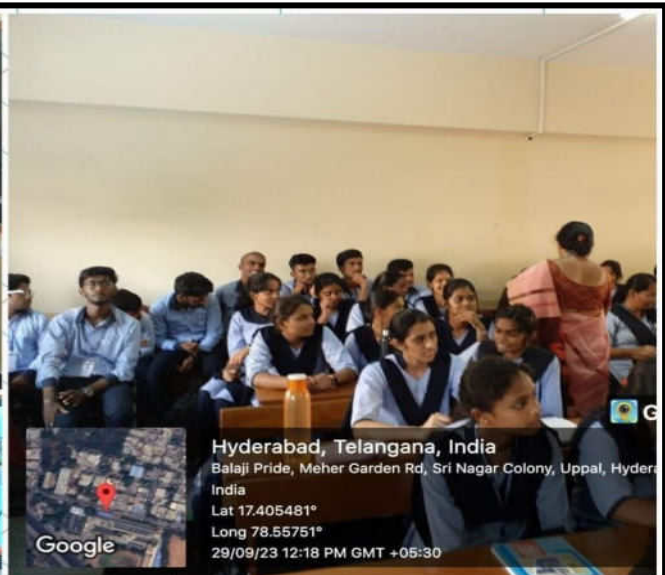
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## STUDENTS ATTENDING THE GUEST TALK BY DR. JHARNA PUPPALA



**SEPTEMBER 29, 2023:** Life Students of all three years attend the guest talk given by Dr. Jharna Puppala. Dr. Jharna awarded the winners of the competitions held as part of Nutrition Month Celebrations.





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## INTRA COLLEGIATE COMPETITIONS PICTIONARY GAME

Date	9 <sup>th</sup> October 2023
Venue	Chemistry lecture room (P23)
Timings	12:40pm to 2:30pm
No. of participants	40
Topic	-
Objective	To encourage artistic expression of students, stimulate innovative thinking and develop cognitive skills.
Outcome	1. Students learnt deeper understanding of the word at deeper level. 2. Students showed improved teamwork skills and collaboration skills. 3. Students were able to enjoy and learn information at the same time.

The Faculty of Biotechnology at Little Flower Degree College organised a Pictionary game for students of all streams. The competition aimed to provide a platform for students to showcase their talents, improve their cognitive abilities and stimulate innovative thinking.

The competition was conducted on with 4 persons per team. The competition was a great success, with many talented students participating and presenting their research on the given topic.

The winners were awarded prizes and certificates for their outstanding performance. Overall, the competition organised by the Department of Biotechnology at Little Flower Degree College was a great opportunity for students to develop their knowledge on various aspects of foods and its nutritional value.



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**October 9<sup>th</sup>, 2023:** Life-Science students of all three years participate in Pictionary game as part of Intra Collegiate competitions.



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### VISIT TO INTERNATIONAL CONFERENCE ON AMR AT SRM-AP

Date	8 <sup>th</sup> and 9 <sup>th</sup> November 2023
Venue	SRM-AP
Timings	10:00am to 5:00pm
No. of participants	48
Topic	Anti-Microbial Resistance
Objective	To provide students an exposure on the advanced research increasing their knowledge
Outcome	1. Students were able to build network by interact with foreign delegates and scientists. 2. Students showed self-awareness of progress and self-assessments. 3. Students were able to identify knowledge gaps, boost confidence and retain information.

The Faculty of Biotechnology at Little Flower Degree College organised a visit to the International Conference on AMR at SRM-AP. It was a 2day conference of 7 sessions covering different aspects of resistance, next generation antimicrobials, etc.

#### DAY 1:

The four sessions of the day included talks on AMR and Environment, Genomics by eminent speakers from UK, IISC and different central universities. It was followed by a panel discussion highlighting the future aspects of antimicrobials ending with a keynote by each member of the panel.

A session of student networking was also included where students met the scientists and had spent time with them. It was a great opportunity for the students to understand and learn about the research from them.

The day came to an end with cultural events and dinner.

#### DAY 2:

The next for sessions of the day included talks on alternate to antibiotics and pathogen strategies. A young scientist session was arranged where the opportunities were made clear to young minds of their future plans.

A parallel session of poster presentation was also very informative. It was followed by a valedictory where the students were given certificates and program came to an end. The students took home a searchful attitude and awareness on opportunities open for them after their graduation.





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## BIOTECHNOLOGY STUDENTS OF LFDC ATTENDING THE CONCLAVE AT SRM



**AUGUST 9, 2023:** Students of BTMC 3, Little Flower Degree College, visit Atlantis Phyto tech for a plant tissue culture workshop.

**NOVEMBER 8, 2023:** Biotechnology students of LFDC attend the International Conclave on  
“AMR and the Future of Antibiotics” held at SRM University, Guntur.



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### **MOU ACTIVITY – ONLINE QUIZ ON NATIONAL MILK DAY & AWARENESS VIDEO ON AIDS DAY**

Date	26 <sup>th</sup> November 2023 & 1 <sup>st</sup> December 2023
No. of participants	118
Objective	To create awareness among the students on white revolution and importance of dairy nutrition in daily life
Outcome	1. Students were able to know what and how much they have understood about the given topic. 2. Students gained a broad understanding of the facts and nutritional information on milk. 3. Students were able to evaluate their knowledge and enhance it.

The Faculty of Biotechnology at Little Flower Degree College, Uppal collaborated with Department of Biotechnology at Teresian College, Mysore as part of MoU activity to conduct an online quiz on National Milk Day on 26<sup>th</sup> November 2023. The main objective was to bring awareness about AIDS and the importance of consumption of milk to the students. India celebrates National Milk Day on 26<sup>th</sup> November every year to commemorate the efforts of Dr. Verghese Kurien, the father of the White Revolution. Dr. Kurien played an important role in the development of the dairy industry.

National Milk Day 2023 does not adhere to a specific theme. Instead, it emphasizes the broader concept of stressing the general importance of consuming milk. The celebration also acknowledges the economic growth spurred by the dairy industry and its contribution to good nutrition. The online quiz included 20 questions based on basic knowledge about both biotechnology and importance of milk. A time of 10 minutes was given to each participant to attempt the quiz. Total of 118 students from various states across India, participated in the quiz to test their knowledge.

World AIDS Day is celebrated on 1<sup>st</sup> December every year, to raise awareness about HIV/AIDS, and to show support to people living with and affected by HIV. A video presentation on AIDS was shown to the students on December 1<sup>st</sup>, 2023 to raise awareness among students. It was very informative and knowledge enriching program for the students. Virtual platform-based quiz gave better access and experience to the participants. Active participation at national level was seen.





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DEGREE & PG COLLEGE**  
Uppal, Hyderabad

**TERESIAN COLLEGE**  
Mysore

**DEPARTMENT OF BIOTECHNOLOGY**

ORGANISES

## NATIONAL MILK DAY

## ONLINE QUIZ

**26 NOVEMBER 2023**

**CLICK HERE!**

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**26<sup>th</sup> November 2023: National Online quiz on National Milk Day and awareness video on HIV**





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### **LIFE ACTIVITY – BLANKET DONATION DRIVE**

Date	29 <sup>th</sup> November 2023
Venue	Vruddha Abhaya Trust – Ramanthapur
Timings	2:00pm to 3:00pm
No. of participants	10
Topic	-
Objective	To promote social service among students and develop sense of helping nature towards the different communities of society
Outcome	1. Students were able to nurture kindness and compassion within them. 2. Students were able to connect with community and face the reality of the situation. 3. Students were able to bridge the gap and feel sense of happiness.

The Faculty of Biotechnology at Little Flower Degree College organised Blanket Donation Drive as a part of LIFE activity. Funds were collected from students which were used to buy blankets and towels for old people.

The drive was held at Vruddha Abhaya Trust – Ramanthapur. Students interacted with old people and spent some time with them. It helped them to understand the issues faced by them and reflect on the societal norms.

The drive helped them to build confidence and encouraged them to work towards developing a kind personality. It ignited an emotional side of them which enhanced their personality and spirit.



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## BIOTECHNOLOGY STUDENTS DONATING BLANKETS AT AN OLD AGE HOME

**NOVEMBER 29, 2023:** Biotechnology Students visit an old age home and donate blankets to raise awareness among the students.



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### **MOU ACTIVITY – WEBINAR ON HISTOPATHOLOGICAL TECHNIQUES**

Date	23 <sup>rd</sup> January 2024
Venue	Online
Timings	12:00pm to 1:00pm
No. of participants	80
Topic	Histopathological techniques
Objective	To help students understand the diagnosis and protocol of the disease and aid in the treatment cum research
Outcome	1. Students were able to understand the causes and steps of the techniques. 2. Students gain a broad understanding of the biopsy and sample collection.

The Faculty of Biotechnology at Little Flower Degree College organised a webinar in collaboration with Department of Biotechnology at St. Joseph's College, Tiruchirappalli. The webinar included the introduction of the biopsy, followed by the methods of sample collection and analysis. An active response from the students was observed.

It was very informative and knowledge enriching program for the students. Virtual platform-based quiz gave better access and experience to the participants. The need for awareness and spreading of knowledge is the best service to nation. Such activities help the students to learn new things, test themselves, enhance their knowledge and go for practical application of it in their daily lives.



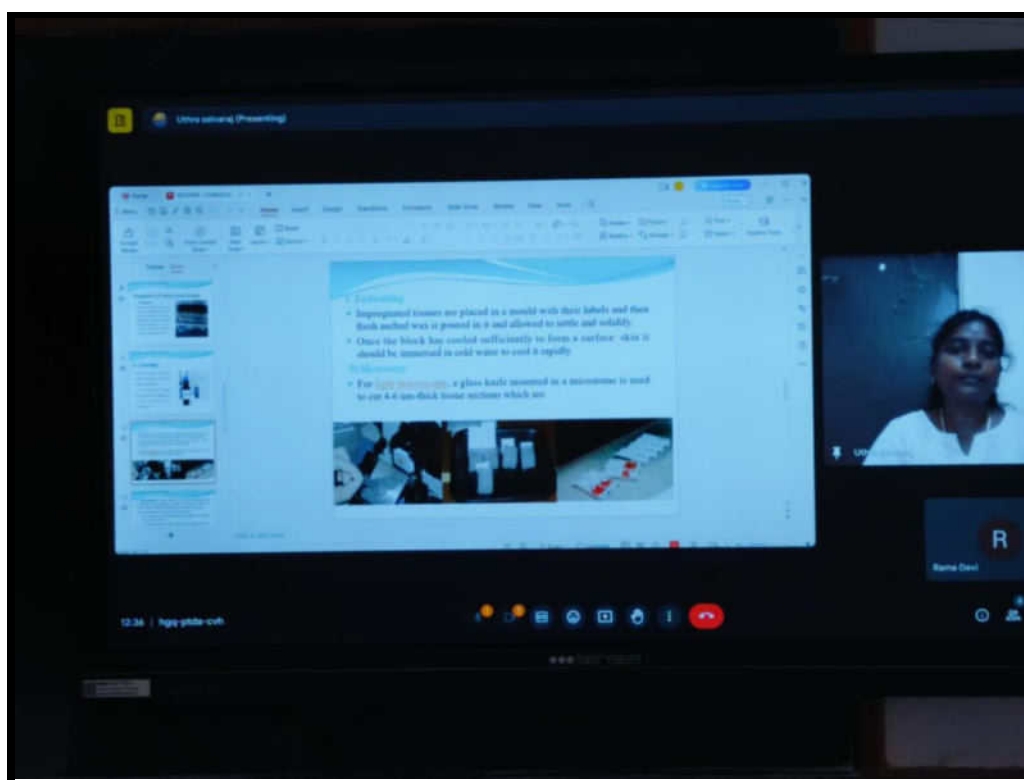


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**JANUARY 23, 2024:** Biotechnology Students attending the online webinar organized on Histopathological Techniques.



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### **NATIONAL LEVEL SEMINAR ON BRIDGING THE GAP: BIOTECHNOLOGY REVOLUTIONIZING MEDICINE**

Date	25 <sup>th</sup> January 2024
Venue	St. Francis College for Women, Begumpet
Timings	9:30 AM to 4 PM
No. of participants attended	10
Objective	To make students explore ground breaking advancements that are reshaping the landscape of health care.
Outcome	1. Students learnt advanced techniques in health care 2. Students learnt new concepts of Diabetic Nephropathy 3. Students also learnt to analyse and understand genetic counselling.

The Faculty of Biotechnology at Little Flower Degree College sent BTMC students to attend a national Level Seminar organised by St. Francis College for Women. The students were able to interact with the resource persons and gain information on the health care research. Sessions on Medical Biotechnology and Cancer research by Asst. Prof Sandhya Rani and Molecular tools by Dr. Ravikanth, TL at AIG Hospitals were a great source of knowledge.

Hands on session on genetic counselling was also given to the students which helped them to understand the need of it. The role of genetic counselling and procedure was explained in detail. The participants were given participation certificates at the end of the seminar.



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**JANUARY 25<sup>th</sup> 2024: Life-Science students of LFDC participating in the Seminar**





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### INTERNSHIP AT GENETICS DEPARTMENT- OU

Date	1 <sup>st</sup> March 2024 to 21 <sup>st</sup> March 2024
Venue	Genetics Department, Osmania University
Timings	2:30pm to 5:30pm
No. of participants attended	15
Objective	To make students explore different molecular biology techniques.
Outcome	<ol style="list-style-type: none"><li>1. Students learned advanced techniques in molecular biology.</li><li>2. Students were able to develop observational skills, and learn to execute new experiments to test a working hypothesis.</li><li>3. Students also learnt to describe basic biological concepts and principles.</li></ol>

The Faculty of Biotechnology at Little Flower Degree College sent BTMC final year students to attend an internship on Molecular Biology techniques at Genetics Department, Osmania University. The techniques were demonstrated to the students by Dr. A. Sandhya Rani ma'am.

The students were able to interact with the resource person and gain information on different aspects of molecular biology such as isolation techniques, and preparation of buffers.

Hands on session on the various techniques was also given to the students which helped them to understand the need of it. The participants were given certificates at the end of this internship.

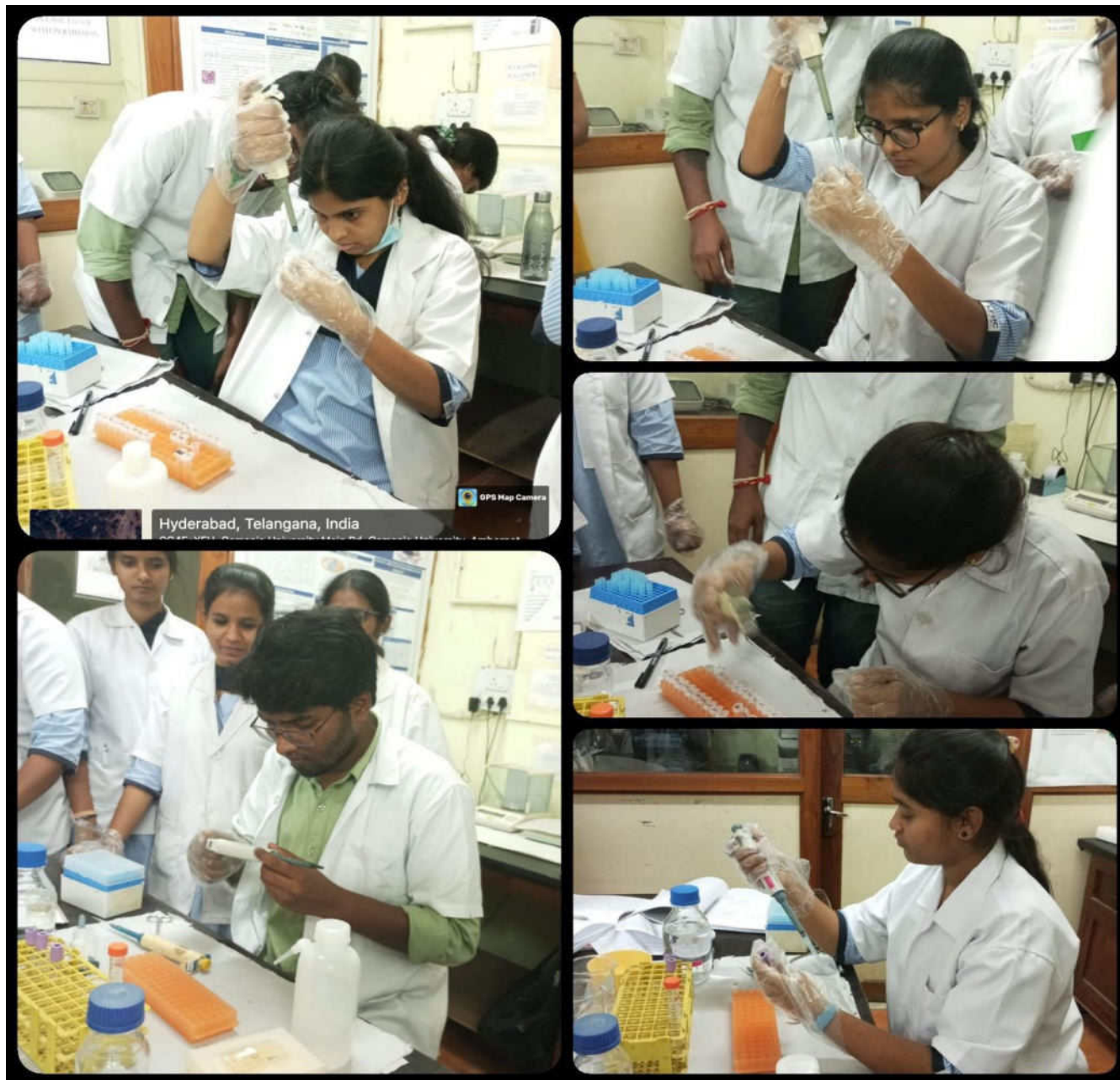


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**MARCH 1<sup>ST</sup> 2024: Life-Science students of LFDC at the Internship at OU**